



BIOMETRICS

DEPARTMENT OF DEFENSE



**Beyond Passwords
Keys, Locks, & Pins**

**DoD Biometrics
Management Office**
Phone: (703) 681-6446
biometricsoffice@hqda.army.mil

<http://www.c3i.osd.mil/biometrics/>
Fax: (703) 681-6369
DSN: 761-6446



Purpose

To introduce the DoD Biometrics Management Program to government and industry representatives.



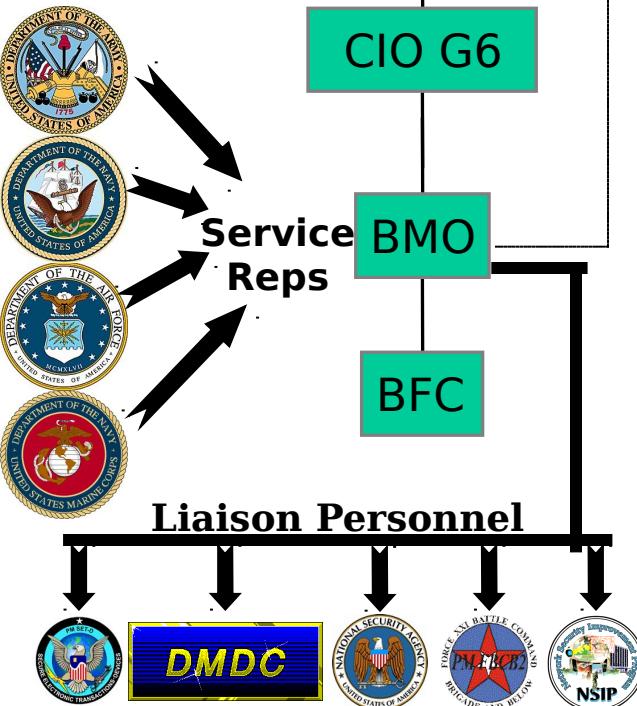
Agenda

- Organization
- Strategic Transformation
- Roadmap to the DoD Biometrics Enterprise Solution
- Program Externalities
- Major Accomplishments
- Biometrics Enterprise Solution Processes
- Conceptual Biometricized Post, Camp, and Station Solution
- Conceptual Enterprise Solution with Repository
- Industry Assistance
- Summary

DoD Biometrics Organization

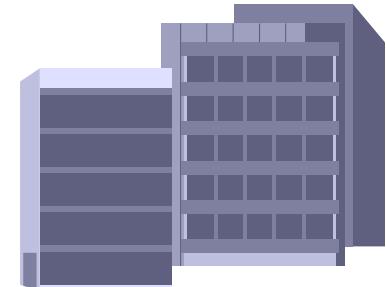


Chain of Command



Biometrics Management Office (WV)

- Oversight
- Planning
- Budgeting
- Policy Development
- Acquisition
- DoD Requirements
- Coordination with non-DoD Agencies
- DoD Awareness of Biometrics
- Industry Contact



Biometrics Fusion Center (WV)

- Test & Evaluation
- T&E Database
- Biometric "KnowledgeBase"
- DoD Pilot Projects
- Standards Working Groups
- Biometric Product List
- Central Repository
- Industry Contact





Strategic Transformation

Paradigm shift is occurring in the new 'digital age'. Present methods of identifying individuals rely on trusting an issuing authority to guarantee authenticity. However, in a distributed enterprise it is imperative to ensure the identity on the 'distant' end

Legal

Claimed Identity:

- Photo IDs
- Official Documents

Technology

National Security

Credentials:

- Tokens
- PINs & Passwords
- COMSEC Keys

100% Identity Assurance:

- Enterprise Life Cycle Processes (collection, storage, access, retrieval and use)
- Biometric solutions (C2 Systems, CAC, PKI, Information Systems)
- Central Storage and Control
- Enterprise Architecture

Objective

Interim

Biometrics will enable the DoD enterprise to guarantee positive access to C2 systems, weapons systems, and information in a full spectrum of operations. Information Dominance is a key



Roadmap to the DoD

Biometrics Enterprise Solution

- **By October 2002 - Partner with DMDC**

- **DoD Biometrics Identification System (DBIDS) Technology Demonstrator (TD) at BFC**
- **Market DBIDS as DoD Secure Installation Access Control System**

- **By January, 2003 - Functional Requirement Analysis**

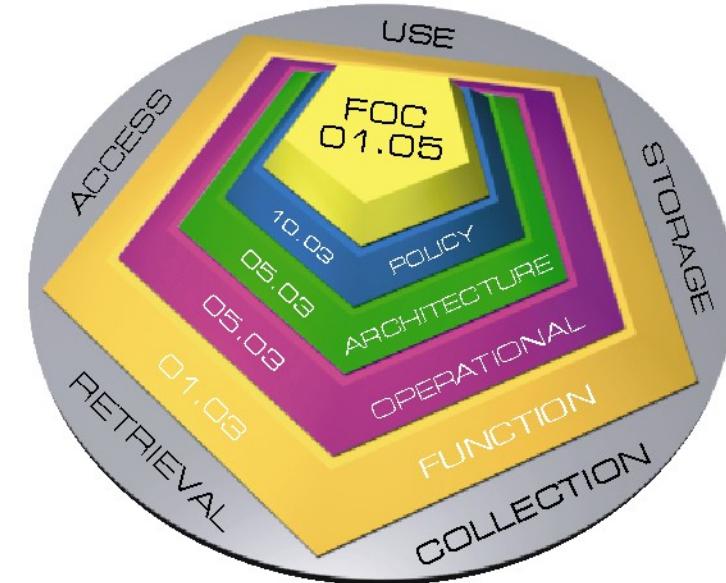
- **Test multiple concepts & technologies in the lab**
- **Survey the user community for requirements**
- **Publish the Biometrics Product List (BPL)**

- **By May, 2003 - Technology Demonstration (TD)**

- **Proof of concept for placing Biometrics on CAC**
- **TD Scenarios**
 - **Repository**
 - **Biometrics Template**
 - **Replacing PIN with Biometric**
 - **Contactless**

- **By May, 2003 - Architecture Design**

- **Operational Architecture**
- **Systems Architecture**
- **Standards Architecture**



- **By January 2004 - Initial Operational Capability for Enterprise Solution**

- **Collection system**
- **Storage System**
- **Access & Retrieval systems**
- **User system**

- **By January, 2005 - Full Operational Capability for Enterprise Solution**

- **Deploy and maintain**



Program Externalities

- Standards and architectures
- Technology Insertion
- Communications Capacity
- Response Time
- Re-tooling Hardware
- Middleware
- Security and Privacy



Major Accomplishments

- Developed the DoD Biometrics Strategic Plan and Directive
- Testing Biometrics for use with the Common Access Card (CAC)
- Delivering a DoD Biometrics five-day course in conjunction with West Virginia University
- In the Final Stages of the Decision process for establishing a permanent DoD Biometrics Fusion Center
- Completed 12 biometric device field tests - 9 fingerprint, 2 iris, 1 hand geometry (7 Army, 2 Air Force, 1 Navy, 1 Marine Corps, and 1 DoD Agency)
- Completed 56 assessments of commercial biometric products - 25 fingerprint, 2 iris, 2 hand geometry, 1 signature verification, 2 speaker recognition, 8 facial recognition, 14 middleware products, 1 retina, 1 web



Biometrics Enterprise Solution

~~Collection Processes~~

Signature



Voice



IrIs



Fingerprint



Hand



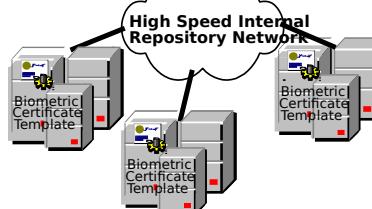
Global Information Grid

CINCs
Services
Agencies

Use

Stora
ge

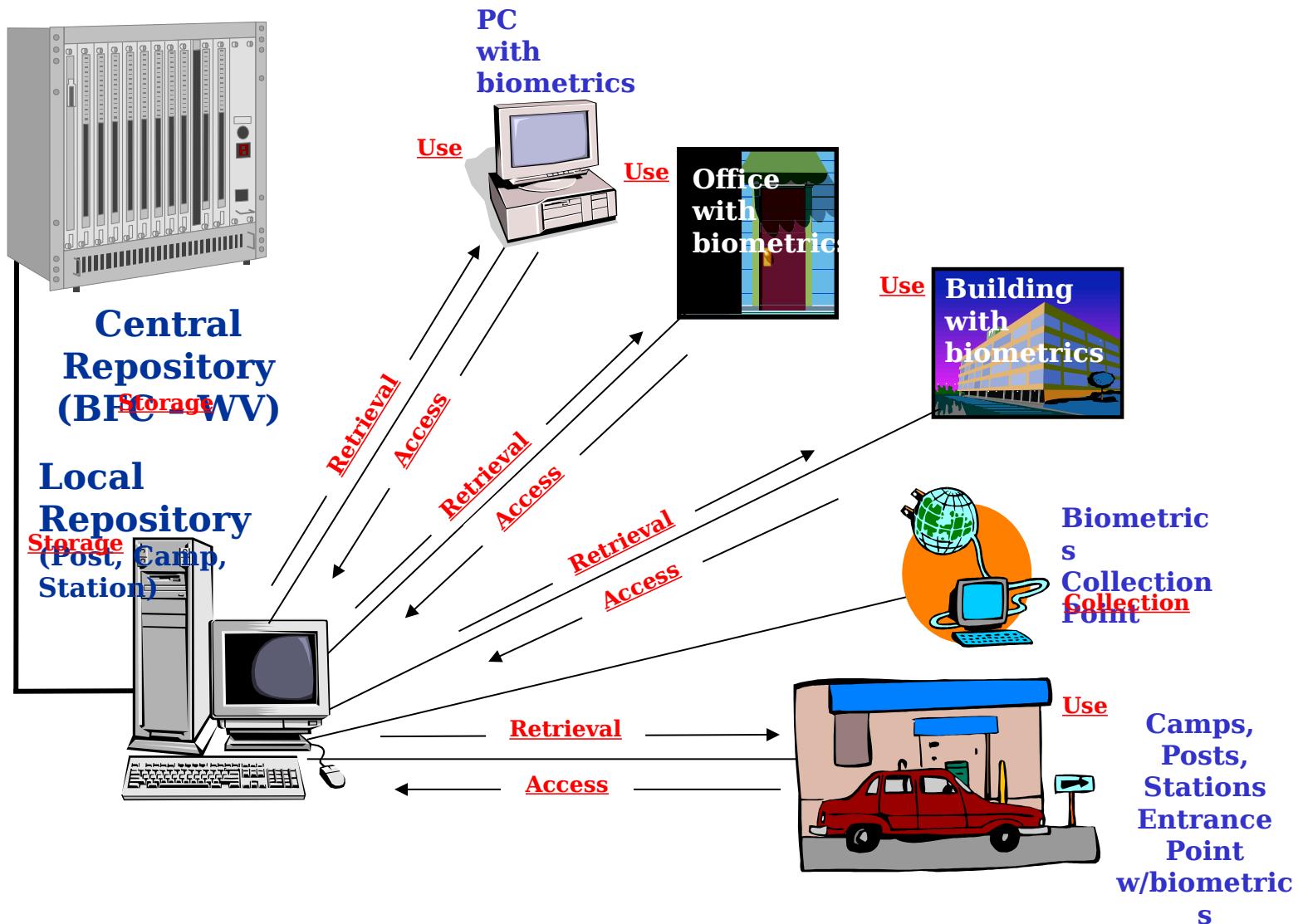
Retrie
val



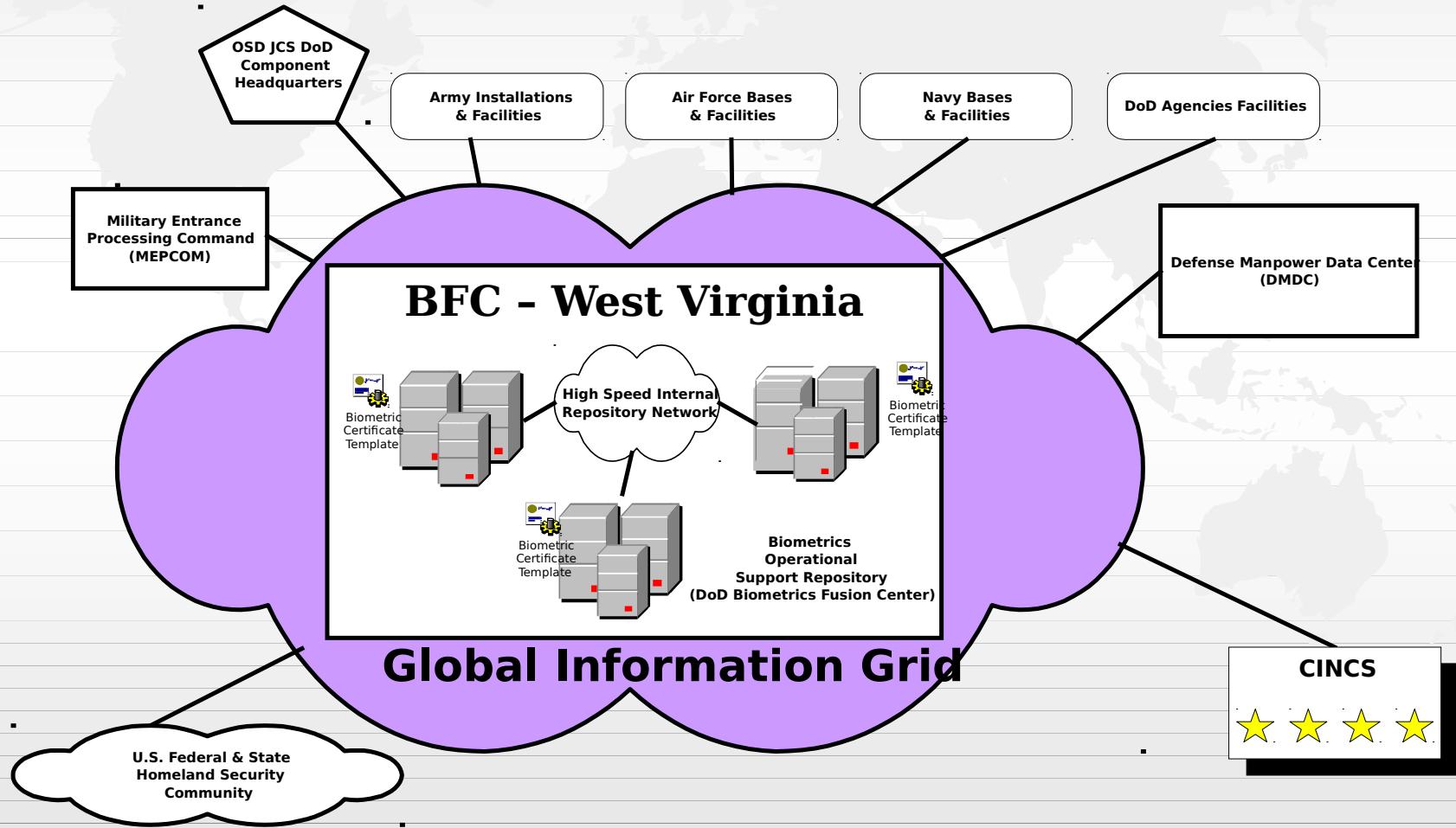
Access



Conceptual Biometricized Post, Camp, and Station Solution



Conceptual Enterprise Solution with DoD Consolidated Biometrics Operational Support Repository





Industry Assistance

Areas that industry can assist the biometrics program:

- Technology Demonstrators in support of Enterprise solutions
 - Biometrics on CAC
 - Collecting, storing, accessing, retrieving and user support
- Compliance with standards
 - BioAPI
 - Interoperability
- Middleware to integrate multiple biometric equipment and systems
- Reducing response times



Summary

- Role of the DoD Biometrics Management Office (BMO)
- DoD Enterprise Solution for Biometrics
- Conceptual Biometricized Post, Camp, and Station Solution
- Program Impacts
- Major Accomplishments
- Industry assistance required



BIOMETRICS

DEPARTMENT OF DEFENSE



**Beyond Passwords
Keys, Locks, & Pins**

**DoD Biometrics
Management Office**

**Phone: (703) 681-6446
biometricsoffice@hqda.army.mil**

<http://www.c3i.osd.mil/biometrics/>

**Fax: (703) 681-6369
DSN: 761-6446**



Education

BFC

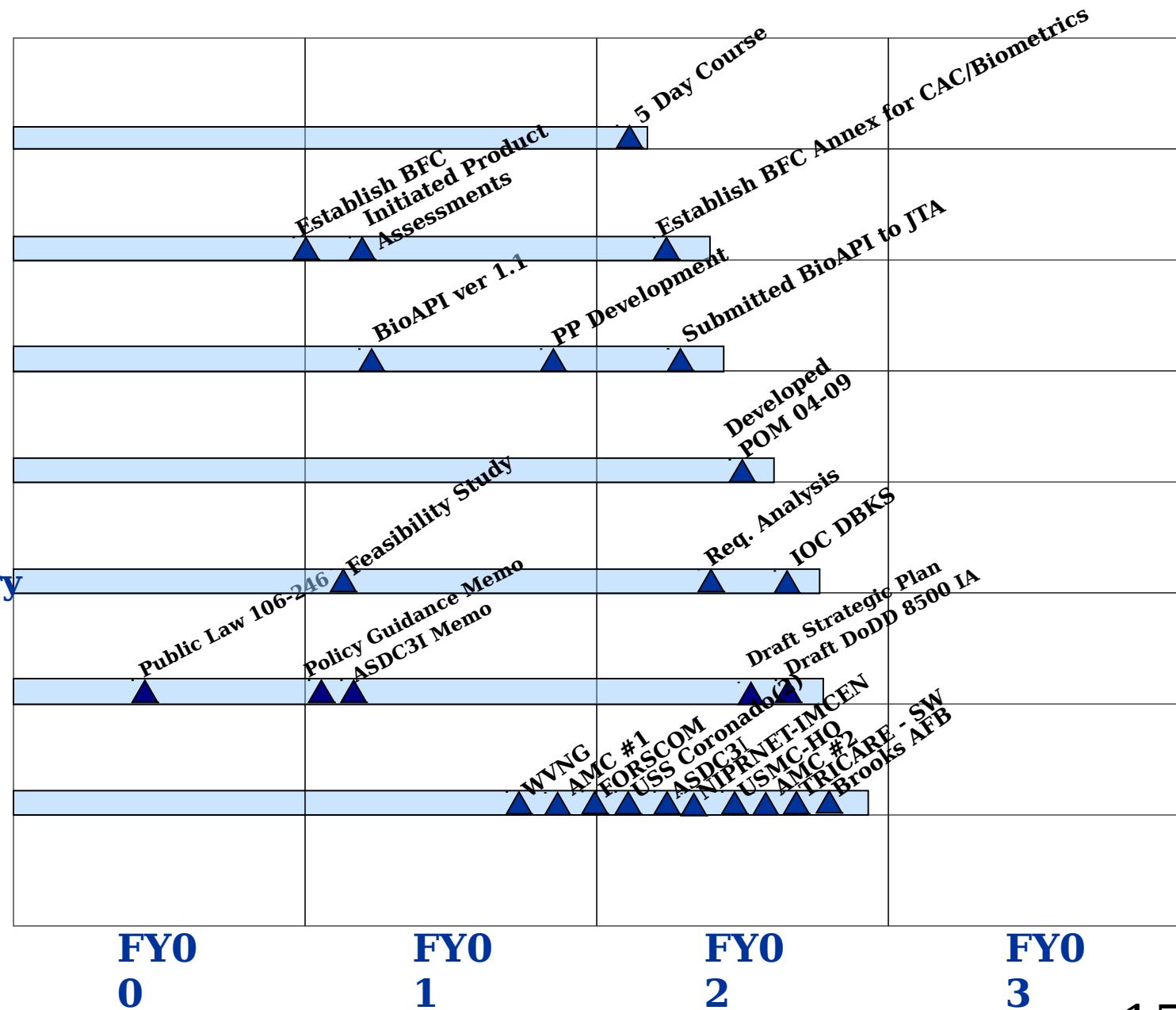
Standards

Budget

Central Repository

Policy

Pilots/Field Tests



FY0
0

FY0
1

FY0
2

FY0
3

Roadmap to Enterprise Solutions



Action	Deliverables	Notional Milestones
Requirements Analysis	Survey, Database, Functional Requirements for Biometrics (Medical, Personnel, Financial, Acquisition, Tactical, etc.)	January 2003
Biometric Enterprise Technology Demonstrations (TD)	Proof of concept for placing Biometrics on the CAC with demonstration scenarios; TD Repository, TD Biometric Template, TD Contactless, TD Replacing PIN with Biometric	May 2003
Design and Develop DoD Biometric Policy Framework	Draft Policies for DoD Biometric Program	October 2003
Design, Develop, and Publish DoD Biometric Operational Architecture System; Architecture & Standards; Architecture for DoD Enterprise Business Process & Technical Solution	Architectural Enterprise Solutions: <ul style="list-style-type: none">• Operational Architecture• Systems Architecture• Standards Architecture	May 2003
Deliver Enterprise Solutions <ul style="list-style-type: none">• Collection• Storage• Access / Retrieval• Use	<ul style="list-style-type: none">• Enterprise Collection System• Enterprise Storage System• Enterprise Access / Retrieval Systems• Enterprise User System	January 2004
Partnering with DMDC	DoD Biometric Identification System (DBIDS) TD in WV at BFC and Airfield	October 2002